ALLNET ALL0137-1-40G-QSFP+ / PCIe 40G Single QSFP+ Server C

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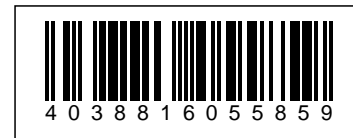
Description:

ALLNET ALL0137-1-40G-QSFP+ 40 Gigabit Ethernet PCI Express server adapter is designed for Servers and high-end appliances. ALL0137-1-40G-QSFP+ offer simple integration into any PCI Express X8 to 40Gigabit Networks. The performance is optimized so that system I/O is not the bottleneck in high-performance networking applications.

ALLNET ALL0137-1-40G-QSFP+ is based on Intel XL710AM1 Ethernet controller with two fully integrated Gigabit Ethernet Media Access Control (MAC) and XLPPI Interface. In addition to managing MAC and PHY Ethernet layer functions, the controller manages PCI Express packet traffic across its transaction, link, and physical/logical layers. Using hardware acceleration, the controller offloads tasks from the host, such as TCP/UDP/IP checksum calculations and TCP segmentation.

ALLNET ALL0137-1-40G-QSFP+ is the ideal solution for implementing multiple network segments, mission-critical high-powered networking applications and environments within high performance servers.

Key Features:

Performance Features:

Support for jumbo frame up to 9.5KB

Flow control support

Priority Flow Control (draft IEEE 802.1Qbb)

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Enhanced Transmission Selection (draft IEEE802.1az)

Statistics management and RMON

802.1q VLAN support

DCB/DCB-X support

Message Signal interrupts (MSI-X)

Storage - Enabling competitive performance with native OS intelligent offload solutions, including NAS, iSCSI and FcoE

Host Interface:

PCI Express X8 lanes

Support PCI Express Base Specification 3.0 (8GT/sec)

LAN and Virtualization Features:

Network Virtualization offloads for VXLAN and NVGRE

Unified Networking Providing a single wire for LAN and storage: NAS (SMB, NFS) and SAN (iSCSI,FCoE)

Virtual Bridging Support – VEPA/802.1Qbg, BPE/802.1Qbh

Physical Functions – Up to 8 per port, up to 16 per device

Support for 128 Virtual Device Queues (VMDq) per port

Hardware Queue Pairs – Up to 1.5K (non-RDMA); up to 256K (RDMA)

Virtualization - Alleviating hypervisor I/O bottlenecks by providing flow separation for Virtual Machines (VMs)

TCP/IP/L2 features:

Receive Side Scaling (RSS)

Large Send Offload (LSO)

TCP/UDP/IP/SCTP Checksum Offload

IPV4, IPV6

Technical Details:

QSFP+ 40Gigabit Ethernet Technical Specifications Adapter:	

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QSFP+ (Quad Small Formfactor Pluggable) supports:	XLPPI interfaces supports 40GBase-R PCS and 40 Gigabit PMA in order to connect with QSFP+ to 40GBase-SR4 / 40GBase-LR4 / 40G Direct Attach Cable
IEEE Standard /Network topology: with 40GBase-SR4 QSFP+	Fiber 40Gigabit Ethernet, 40GBASE-SR4 (850nm LAN PHY).
IEEE Standard /Network topology: with 40GBase-LR4 QSFP+	Fiber 40Gigabit Ethernet, 40GBASE-LR4 (1310nm LAN PHY)
Operating Systems Support	
Operating system support:	Windows Linux
General Technical Specifications	
Interface Standard:	PCI-Express Base Specification Revision 3.0 (8 GT/sec)
Board Size:	165mm X 69mm(6.496 X 2.717) PCB thickness is 0.062 inch
PCI Express Card Type:	X8 Lane
PCI Express Voltage	+12V +- 8%
PCI Connector:	X8 Lane
Controller:	Intel XL710AM1
Holder:	Metal Bracket
Weight:	130gr (4.568 oz)
Power Consumption	3.600W
Operating Humidity:	0%–90%, non-condensing
Operating Temperature:	0°C – 45°C (32°F – 113°F)
Storage:	-40°C–65°C (-40°F–149°F)
EMC Certifications:	FCC PART 15B EN 55022: 2010 EN 55024: 2010 EN 61000-3-2:2014 EN 61000-3-3:2013
LEDs	

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LEDs:	Link 10G :Green
	Link 40G: Yellow
	Act: Blue;Blink on Activity
Connectors:	(1) QSFP+ cage: MOLEX, P/N 75586-0010, or compatible.

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